



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/770,103	01/25/2001	Kazushige Matsui	JP9 1999 0225	5343

7590

10/03/2003

Bruce Schelkopf
IBM Corp.
Personal Systems Group Legal Dept.
Dept. 9CCA/Bldg. 002-2
Research Triangle Park, NC 27709

EXAMINER

YUN, EUGENE

ART UNIT	PAPER NUMBER
----------	--------------

2682

DATE MAILED: 10/03/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/770,103

Applicant(s)

MATSUI, KAZUSHIGE

Examiner

Eugene Yun

Art Unit

2682

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-15 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-15 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 1/25/01 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on ____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
- 1) ☒ Certified copies of the priority documents have been received.
 - 2) ☐ Certified copies of the priority documents have been received in Application No. ____.
 - 3) ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) ____.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). ____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 1-15 are rejected under 35 U.S.C. 102(b) as being anticipated by Nilssen (US 5,068,890).

Referring to Claim 1, Nilssen teaches a wireless communication apparatus for facilitating communication between terminals in a wireless network, comprising:

a power supply connecting section (see unlabeled mechanism connected above EBM2 and EBM3 fig. 4B) adapted for connection to a lighting power socket;

communicating means, connected to the power supply connecting section STM2 (fig. 4B), for conducting wireless communication with the terminals CT1 (fig. 4B) and for communicating via the lighting power socket with one or more wireless communication apparatus connected thereto; and

Art Unit: 2682

a lamp connecting section, electrically connected to the power supply connecting section EBM3 (fig. 4B) adapted to receive a power supply plug for lighting.

Referring to Claim 7, Nilssen teaches a network system comprising:

a plurality of wireless terminals CT1 and CT2 (fig. 4B); and

a plurality of wireless communication apparata for conducting wireless communication with the wireless terminals TCM and STM2 (fig. 4B), wherein each of said wireless communication apparata includes:

a power supply connecting section connected to a power socket for lighting (see unlabeled mechanism connected above EBM2 and EBM3 fig. 4B); and

communicating means, connected to the power supply connecting section STM2 (fig. 4B) for conducting communication between the wireless terminals and one or more of the plurality of wireless communication apparata.

Referring to Claim 8, Nilssen also teaches a lamp connecting section, electrically connected to the power supply connecting section EBM3 (fig. 4B) and to which a power supply plug for lighting is connected.

Referring to Claims 2 and 9, Nilssen also teaches a plug equivalent to the power supply plug for lighting PP (fig. 4B).

Referring to Claims 3 and 10, Nilssen also teaches a socket equivalent to the socket for lighting EPRM2 (fig. 4B).

Referring to Claims 4 and 11, Nilsson also teaches a power line communication control section BSPCM1 (fig. 4B), connected to the power supply

Art Unit: 2682

connection section and conducting communication via a power line with the other wireless apparatus connected to the other power sockets for lighting;

an antenna RTA2 (fig. 4B) for wireless communication;

a wireless communication control section STM2 (fig. 4B), connected to the antenna for wireless communication and conducting wireless communication with the wireless terminals; and a communication control section MSCM1 (fig. 6), connected between the power line communication control section and the wireless communication control section, and transferring data between the power line communication control section and the wireless communication control section.

Referring to Claims 5 and 12, Nilssen also teaches a unit power supply section connected to said power supply connecting section and converting output voltage of the power socket for lighting to a predetermined voltage to be supplied to said communicating means (see col. 8, lines 33-39).

Referring to Claims 6 and 13, Nilssen also teaches a connecting switch placed between the power supply connecting section and the lamp connecting section, and a connecting switch control section for switching the connecting switch ON or OFF based on predetermined signals received by the communicating means WS/LCM2 (fig. 4B).

Referring to Claim 14, Nilssen teaches a method of communicating between wireless terminals in a wireless network comprising the steps of:

Art Unit: 2682

receiving information transmitted from a first wireless terminal, using a first wireless communication apparatus STM2 (fig. 4B) connected to a first lighting power socket (see unlabeled mechanism above STM2 in fig. 4B);

transmitting, through a power line BSCPM1 (fig. 4B), the information received by the first wireless communication to a second wireless communication apparatus connected to a second lighting power socket; and wireless transmitting the information received by the second wireless communication apparatus to a second wireless terminal (see fig. 4B where signals from CT1 are transmitted via STM2 to another separate apparatus similar to one seen in fig. 4B in another location by power line).

Referring to Claim 15, Nilssen teaches a wireless communication apparatus for facilitating communication in a wireless network comprising:

a power supply connecting section BSCPM1 (fig. 4B) adapted for connection to a lighting circuit EBM3 (fig. 4B) and communicating means STM2 (fig. 4B), connected to the power supply connecting section, for conducting wireless communication with at least one wireless terminal CT1 (fig. 4B) and for communicating with another similar wireless communication apparatus by means of the lighting circuit.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Eugene Yun whose telephone number is (703) 305-2689. The examiner can normally be reached on 8:30am-5:30pm Alt. Fridays off.

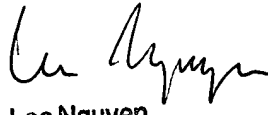
Art Unit: 2682

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vivian Chin can be reached on (703) 308-6739. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-4700.

Eugene Yun
Examiner
Art Unit 2682

EY



Lee Nguyen
Primary Examiner